# XL2 Data Explorer

The easy way to analyze logged sound level data

The XL2 Data Explorer is a PC-based software application with a powerful data processor for easy and fast analysis of sound level measurement data. Visualize, analyze and control millions of data points with this tool that is dedicated to acoustic consultants and noise measurement professionals. It provides a convenient way to view and manage your data and quickly create customized reports.

Features

■ **Visualization** of the entire dataset including spectrogram.

■ **Very fast zoom and pan** response over the entire log, even for very large data sets.

■ **Timeline for audio files** and synchronized playback at controlled levels.

■ **Exclude & Event Markers** with on-the-fly calculations.

■ **Calculates** sum of individual frequency bands.

■ **Percentile Ln** calculation and statistical analysis.

■ **Report** and customize your results simply and professionally.
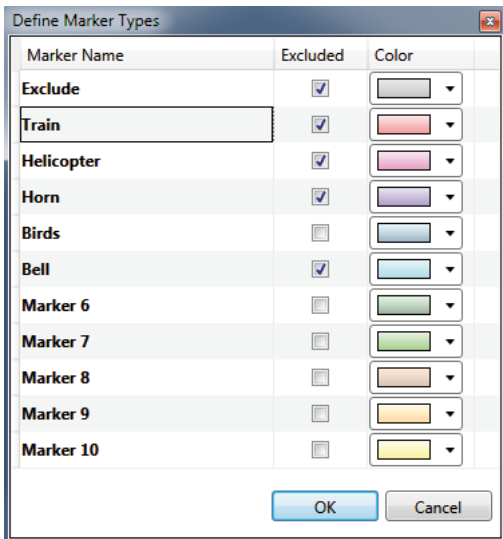
Markers

Mark areas of interest in the graph with a text description. Choose to exclude or include these marked areas in your final result. The marked areas are summed and appear in your report.

Results

The tabular representation shows all results in a structured and intuitive way, detailing the original recorded results, summaries of the areas marked for exclusion and inclusion, and the final result. The results can be exported to EXCEL.
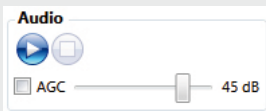
Audio

Audio recordings are synchronized to the measurement data on the timeline.

Listen to the recordings for a more objective analysis of the noise sources with manual or automatic gain control.
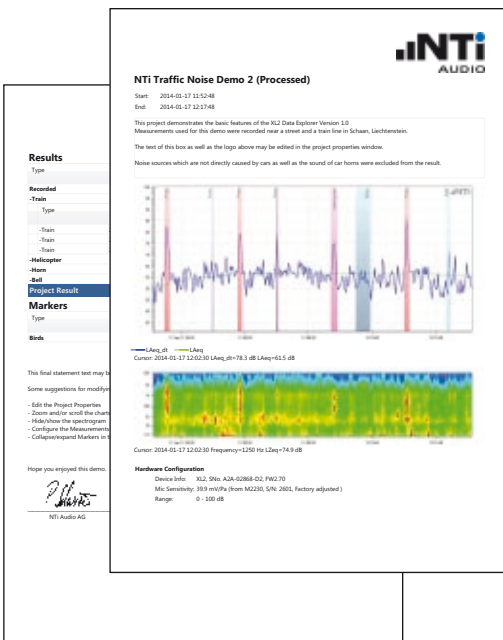
Reports

Complete your professional reports with user-customized titles and comments. XL2 Data Explorer automatically adds relevant information and compiles a tailored report.

Evaluation

The Data Explorer Option enables the import of measurement data into the XL2 Data Explorer software. This option needs to be installed in the XL2. Contact us for an evaluation.

Specifications

Supported Data Types	• XL2 sound level meter • Broadband, 1/1 and 1/3 octave band data • Audio data playback aligned to graphs
Data Handling	Optimized for fast analysis of big data (millions of points)
Markers	• 11 different marker types available • Exclude and event marker with on-the-fly calculations • Overlapping markers of same type are merged automatically • Notes
Percentiles	• Percentiles for wide band, 1/1 and 1/3 octave spectrum • Simultaneous percentile calculation of full spectrum • Flexible setting from 0.1% to 99.9% • Class width = 0.1 dB
Calculated Levels	• $LAFT5eq - LAeq$ • $LAIeq - LAeq$ • $LCeq - LAeq$ • $LAFmax - LAeq$ • $LAImax - LAFmax$ • $LAImax - LASmax$ • LAE • Sum of frequency bands (e.g. 50 Hz to 250 Hz)
Audit Intervals	1, 5, 10, 15, 30, 60 minutes

Automated Marker Generation	• Level
	• Pure Tone (based on RTA levels)
	  » ISO 1996:2-2007, BS 4142:2014, DM 16 marzo 1998 (Italy)
	  » Leq – Max or Leq – Mean (neighbors)
	  » User-defined minimum tone duration
	  » Distinguishing between small and prominent tones
	• Impulsive Sound (based on broadband level)
	  » $LAIeq - LAeq$, $LAFmax - LAeq$, DM 16 marzo 1998 (Italy)
	  » $LAImax - LAFmax$, $LAImax - LASmax$
	• Time

Day-Night Levels	• Lden, Ldn, Lday, Levening, Lnight • User-defined penalty
Rating Level	• DIN 45645-1/-2, BS 4142:2014, DM 16 marzo 1998 • User-defined measurement periods and reference time interval • Marker-based and reference time interval based correction • Counter and duration of selectable marker
Reporting	• Data export to MS Excel • XPS report
Licensing	• Install Data Explorer Option into XL2 Sound Level Meter; this enabling the import of measurement data into Data Explorer software. • Data Explorer can be installed on multiple computers.
Compatibility	• Windows XP, Vista, 7, 8 Pro, 8.1 Pro, 10 • Video board with a shader-model 3.0 or higher (DirectX 9.0 c)
Order Information	• XL2 Data Explorer Option, NTi Audio # 600 000 430 • Data Explorer 365, NTi Audio # 600 000 431

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